

**Features:**

- ▶ 1 Line 4 Digit ultra bright LED display
- ▶ Site Programmable CT ratio (Primary and Secondary)
- ▶ True RMS measurement
- ▶ Password protection
- ▶ Optional features
 - a) 60A direct current (External CT module available)
- ▶ Harmonic measurement (THDI)
- ▶ Auto ranging
- ▶ Universal Auxiliary supply

**Advantages:**

- ▶ Cost-effective
- ▶ Accurate reading
- ▶ Long life compared to Analog, as no moving parts
- ▶ Reduce panel space, wiring and installation time
- ▶ Precise onsite display

Applications:

- ▶ Industrial application and Automation
- ▶ Control Panel
- ▶ Equipment Monitoring
- ▶ Distribution Systems
- ▶ Test bench

Measuring Parameters

- ▶ Current phase wise & average
- ▶ Total and Average Harmonic Distortion (Phase wise): Current (THDI)

Supply Voltage

Auxiliary Supply	90-270V AC/DC
Frequency	50/60 Hz

Display

Display	4 digits 7 segment LED display
Digit Height	0.56" (14.3mm)
Display Scrolling	Automatic/Manual

Settable Parameters

C.T. Primary	1/5A to 5000A (Programmable)
C.T. Secondary	1/5A (Programmable)

Input Specifications

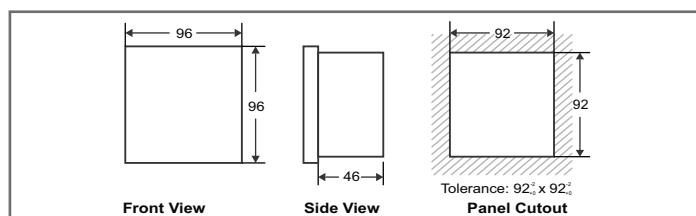
Electrical Connection:	3Ø-4 wire
Input Current Range	0.015A-6A AC
Frequency	45/65 Hz
Resolution	Autoranging
Accuracy	Current: $\pm 0.5\%$ of full range
Burden	Current: 0.2 VA max. per input Aux. Supply: 3 VA max.

Environmental Specifications

Temperature	Operating : -10° to 55°C Storage : -20° to 75°C
Humidity	< 95% RH

Mechanical Specifications

Mounting	Flush Mounting with Side Clamps
Weight	280 g
Enclosure Material	ABS Thermoplastic
Protection Degree	IP20 (terminals) IP54 (Front of housing)

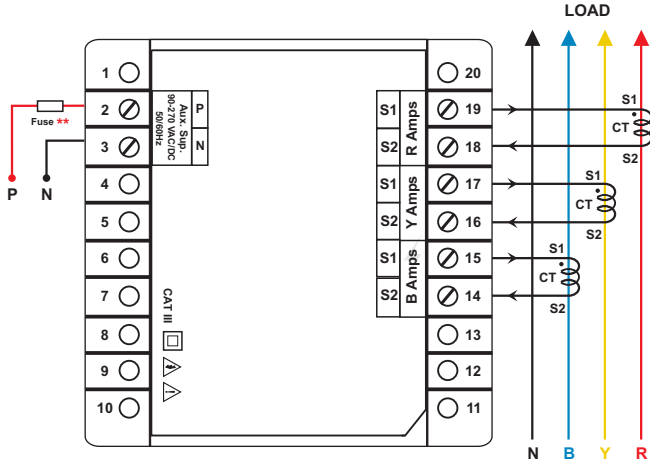
Dimension**Applicable Standards**

Radiatel Emission	CISPR22
Fast Transient Burst Test	IEC61000-4.4
Conducted Emission	IEC61000-6.3
Test of Immunity to Electromagnetic RF Fields	IEC61000-4.3
Test of Immunity to Conducted Disturbances, Induced by Radio-Frequency Fields	IEC61000-4.6
Test of Immunity to Electrostatic Discharges	IEC61000-4.2
Surge Immunity Test	IEC61000-4.5

Safety Standards

Safety Standard	IEC61010-1
Pollution Degree	II
Installation Category	III
High Voltage Test	2 kV AC, 50Hz for 1 Minute Between Aux.& Measuring Inputs

Connection Diagram



Ordering Information

Ordering Code	Description	Comm. RS485
VIPS 89	0-5A, CT programmable	
VIPS 89-C	0-5A, CT programmable	
VIPS 89-60A-3P-N	0-60A, external CT for 1 phase(N)	

Accessories

Description	Code	Photo
for external CT of 60A programmed for three phase	60A-3P	

Preference of Accessories

The above module to be supplied with 1 meter long Leads	N
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